

University of Groningen

RadaR (Rapid analysis of diagnostic and antimicrobial patterns in R) - an interactive open source software tool

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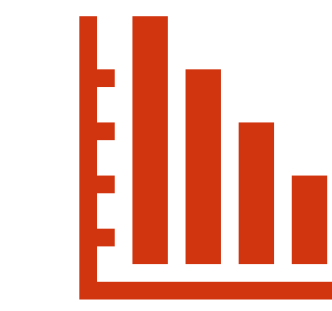
 PATIENTS

 ANTIMICROBIALS

 DIAGNOSTICS

 OUTCOME

RadaR - methods



Electronic hospital records

Antimicrobial consumption
Microbiological diagnostics
Administrative data

Data processing in R

Merge sources
Standardize
Automated process

Interact with the data

Web-browser based
Filter, select, zoom
No prior skills needed

Visualization & analysis

Get insights within seconds
Communicate findings
Reproduce findings

RadaR - use

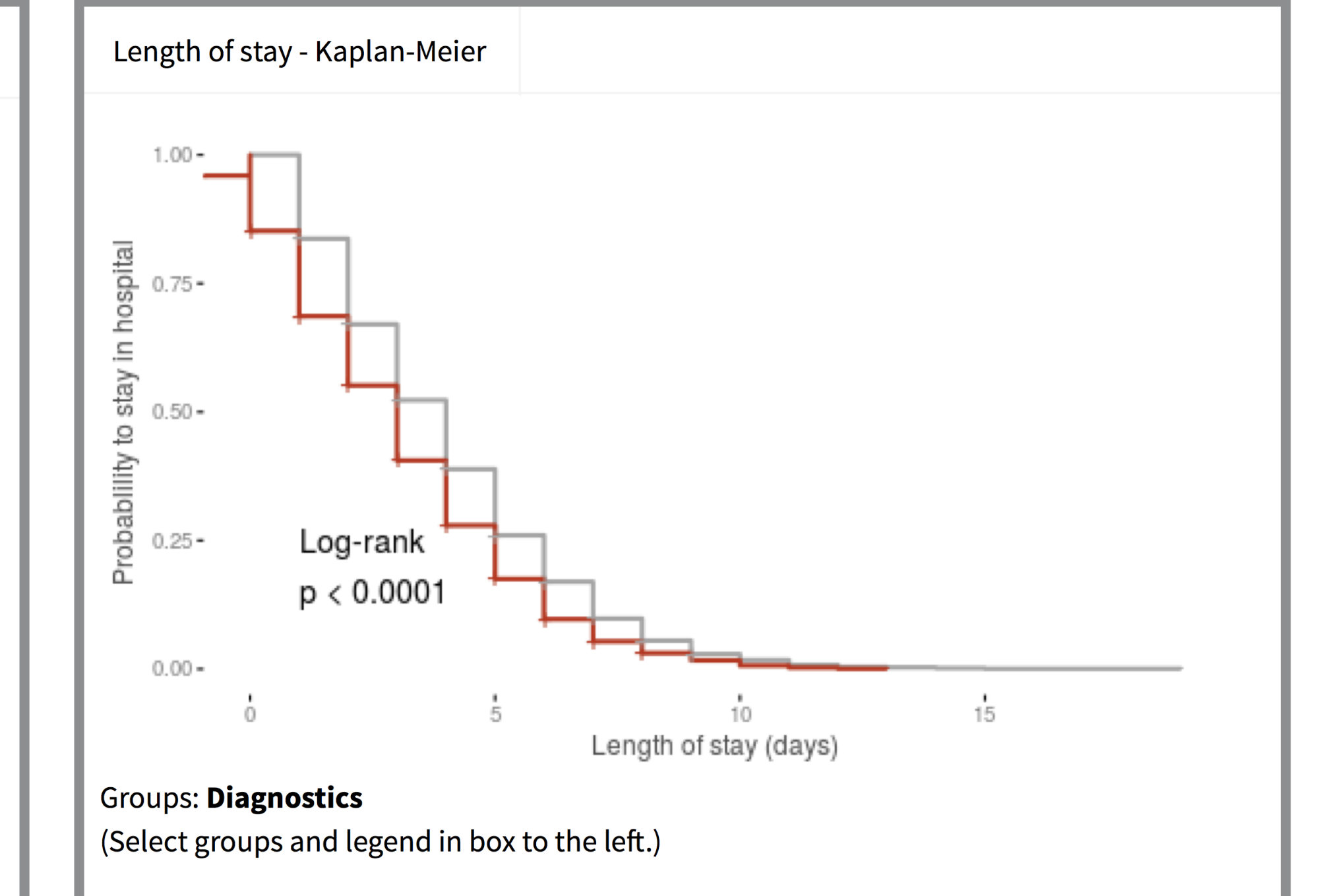
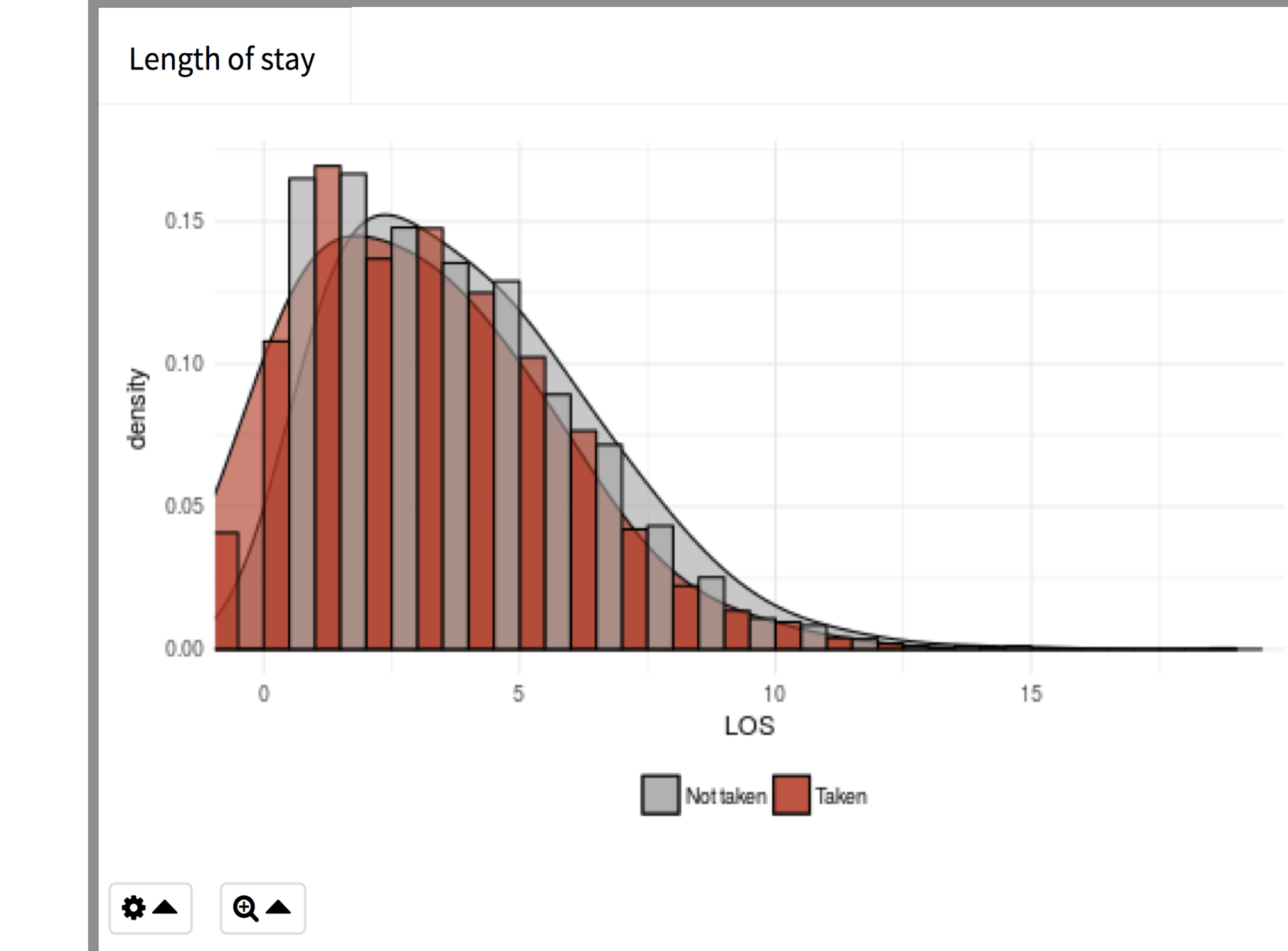
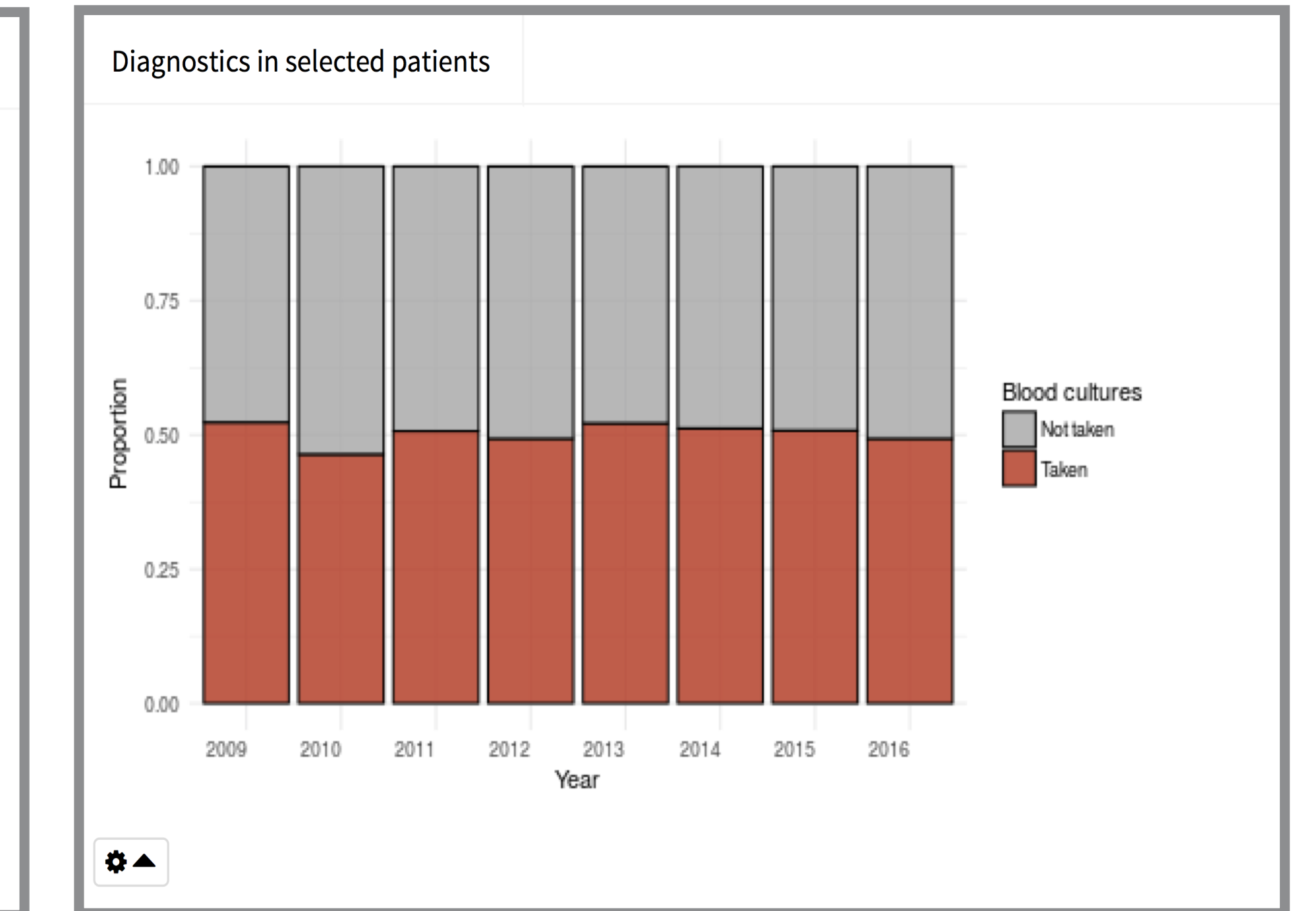
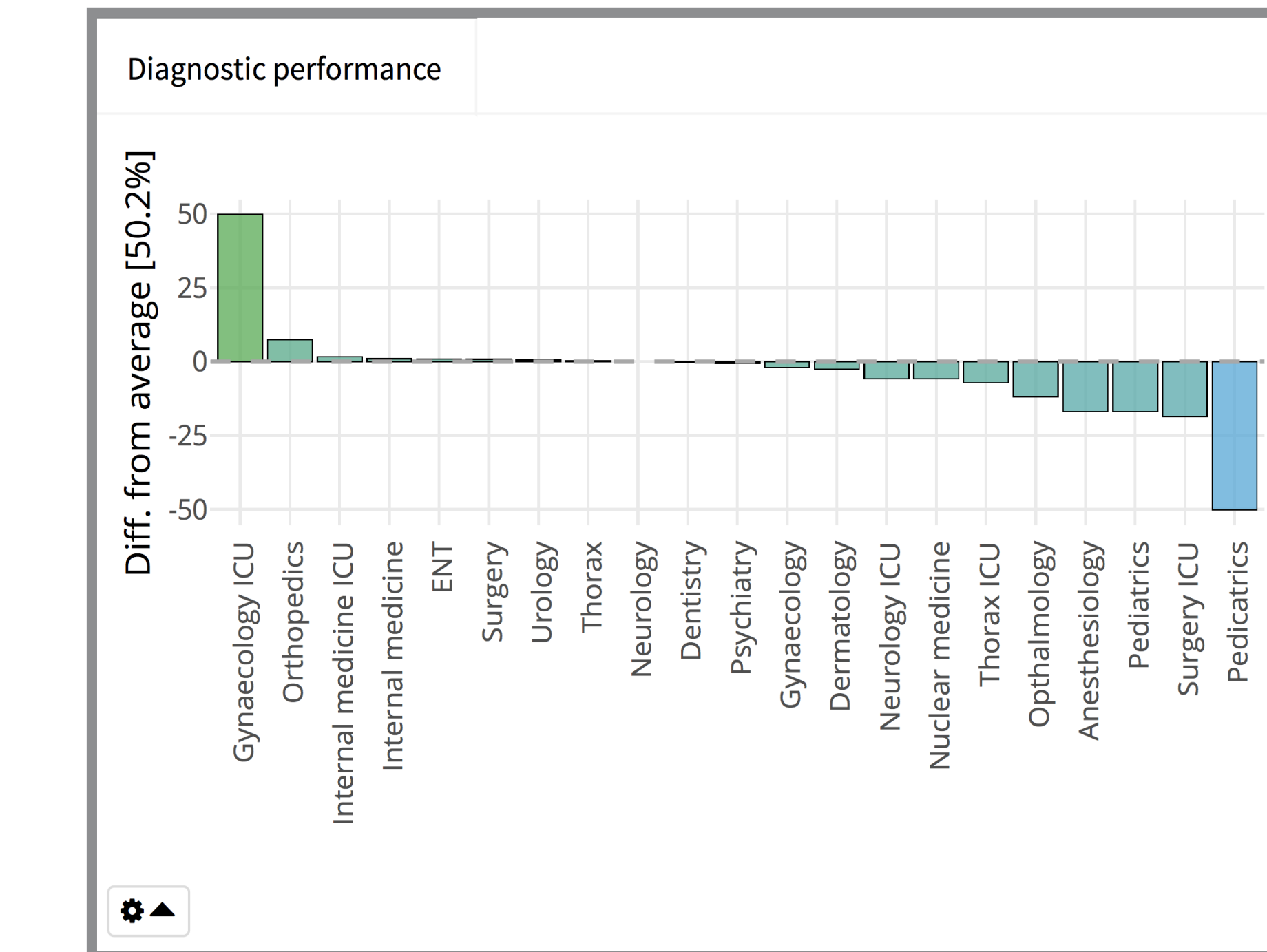
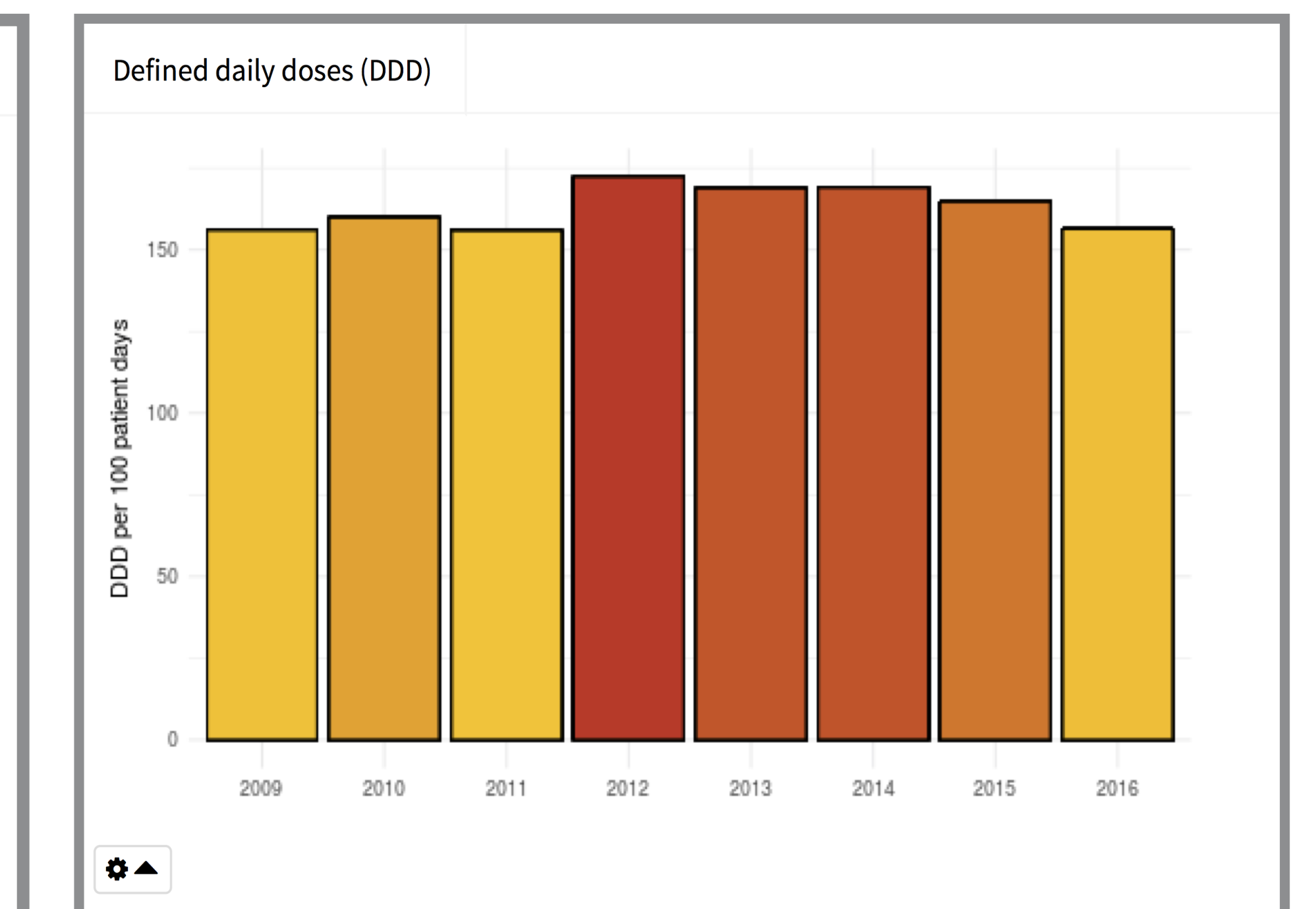
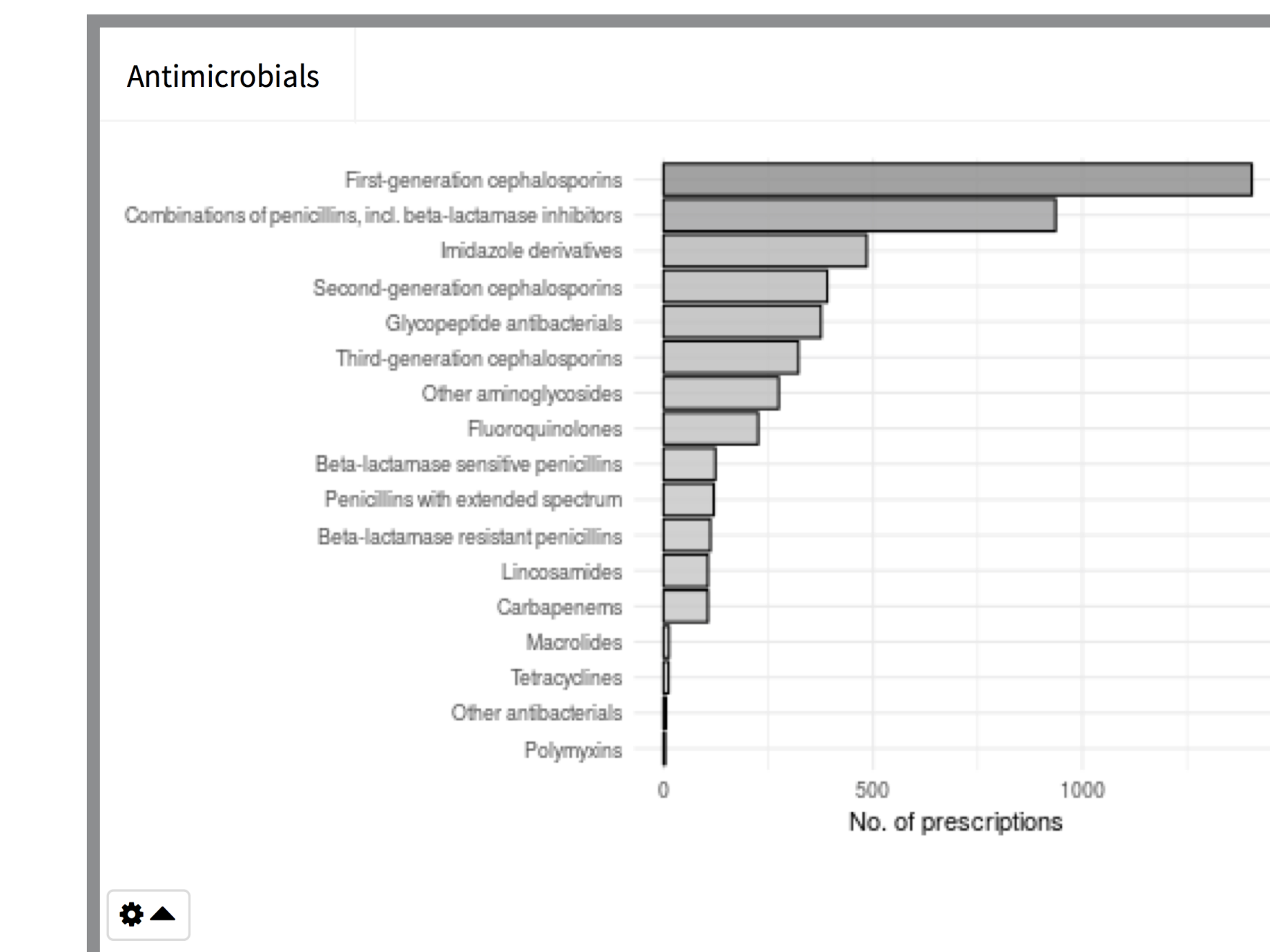
- Define patient group by 17 selection criteria (start of treatment, specialty, type of antimicrobials, year, admission route, and more)
- Find patients receiving antimicrobials, selected by their first prescription and filter or stratify by various groups.
- Check whether microbiological diagnostics have been performed in a given time.
- Analyse how long patients stay in hospital.
- Identify areas within the hospital that might benefit from **antimicrobial stewardship** interventions.

Selection criteria

- Start of antimicrobials (in relation to start of admission)
- Minimum duration of treatment (days)
- Minimum duration of single prescription (days)
- Administration route
- First prescription only or all antimicrobials
- Groups of antimicrobials - 4th level WHO ATC
- Antimicrobials - 5th level of the WHO ATC
- Gender
- Age
- Year
- Specialty
- Minimum number of patients per sub-specialty
- Include only sub-specialty only
- Exclude sub-specialty
- Route of admission
- Type of diagnostics
- Days to first test (in relation to start of antimicrobials)

RadaR - output examples


 simulated data



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 Find an online example of RadaR here:

